

System Drawings

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE NORTH & SOUTH PLANTS

PREPARED BY
URS CONSULTANTS, INC.
SACRAMENTO, CA

JUNE 1997



GENERAL NOTES

- I. ENGINEER DOES NOT WARRANT THAT ALL UTILITIES ARE SHOWN, THAT UTILITIES SHOWN EXIST OR THAT UTILITIES SHOWN ARE IN THE LOCATIONS INDICATED. CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXCAVATING FOR PADS, PIPELINES, STRUCTURES AND APPURTENANCES SO AS NOT TO DISTURB EXISTING UTILITIES AND PIPELINES OR UNNECESSARILY DAMAGE SURROUNDING VEGE-TATION. CONTRACTOR SHALL REROUTE, REPLACE OR, EXTEND OR OTHERWISE ALTER EXISTING UNDERGROUND UTILITIES AND CONDUITS WHICH ARE DISTURBED AS PART OF THIS WORK TO THE ULTIMATE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER UNLESS APPROVED BY THE ENGINEER IN ADVANCE. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS IN ADVANCE OF ANY DIGGING. UNDERGROUND SERVICE ALERT TELEPHONE NUMBER: 1-800-642-2444.
- 2. NORTH PLANT BENCHMARK (ELEV. 1409.941 FEET) IS A 2" BRASS DISK STAMPED "R. CLARK WILSON, L.S. 3223 LOCATED 3 FEET EAST OF THE WEST END OF A CONCRETE HEADWALL OF A FLOOD CONTROL BRIDGE OVER THE DEVIL CREEK CHANNEL NORTH OF 42nd STREET ON LITTLE MOUNTAIN DRIVE. CITY OF SAN BERNARDINO DESIGNATION A6-13A, SET 1985.
- 3. WATERMAN (SOUTH) PLANT SITE BENCHMARK (ELEV. 1240.802 FEET) IS A BRASS DISK STAMPED "X-522" LOCATED AT THE SOUTHWEST CORNER OF SIERRA WAY AND MARSHALL BLVD. IN THE TOP OF THE SOUTHEAST CORNER OF A CONCRETE FOUNDATION FOR A LIGHT STANDARD AND OVERHEAD STREET LIGHT; 0.9 FEET WEST OF THE WEST CURB LINE OF SIERRA WAY; 13.9 FEET SOUTH OF THE SOUTH CURBLINE OF MARSHALL BLVD. CITY OF SAN BERNARDINO DESIGNATION A6-2, SET 1972.
- 4. CONTRACTOR AGREES TO ASSUME RESPONSIBILITY FOR SITE CONDITIONS, TO ENSURE THE SAFETY OF ALL PERSONS AND PROPERTY AFFECTED BY THEIR WORK, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 5. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PROTECTION OF EXISTING FACILITIES FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS.
- 6. CONTRACTOR AGREES TO ENSURE THAT ALL WORK IS PREFORMED IN A MANNER WHICH MINIMIZES DISTURBANCE TO OWNER'S ONGOING ACTIVITIES AT THE SITE, CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG IT'S EMPLOYEES AT ALL TIMES. CONTRACTOR SHALL NOT EMPLOY ANY PERSON UNFIT OR UNSKILLED IN ANY PROJECT ASSIGNED TO HIM.

"RECORD DRAWING"

DESIGNED BY: PS DRAWN BY: NDH RECORD DRAWING CHECKED BY: DHD DATE NO. DATE DESCRIPTION REVISIONS

URS Consultants, Inc. CONSULTING ENGINEERS SACRAMENTO

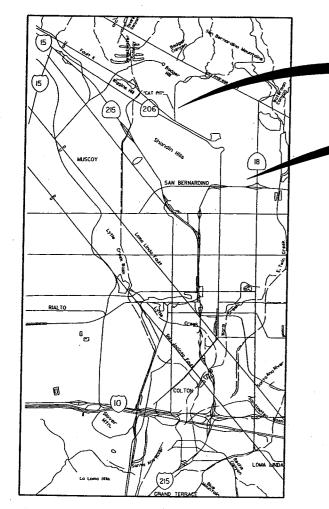
JOB No. 62370

CALIFORNIA

NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE **NORTH & SOUTH PLANTS**

SHEET INDEX AND **GENERAL NOTES**

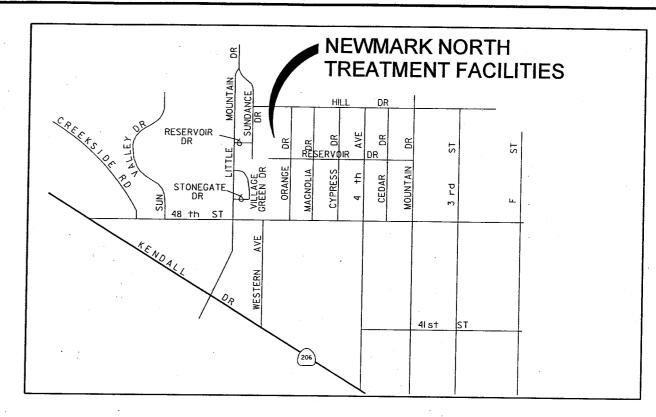
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VICINITY MAP

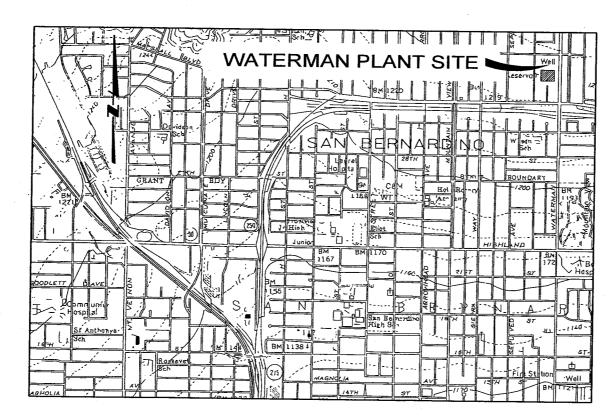
NORTH PLANT TREATMENT FACILITIES

WATERMAN PLANT TREATMENT FACILITIES



NORTH PLANT

LOCATION MAP



WATERMAN (SOUTH) PLANT

LOCATION MAP

"RECORD DRAWING"

RECORD DRAWING NO. DATE DESCRIPTION REVISIONS

CHECKED BY: DHD

URS Consultants, Inc.
CONSULTING ENGINEERS
SACRAMENTO CALIFORNIA

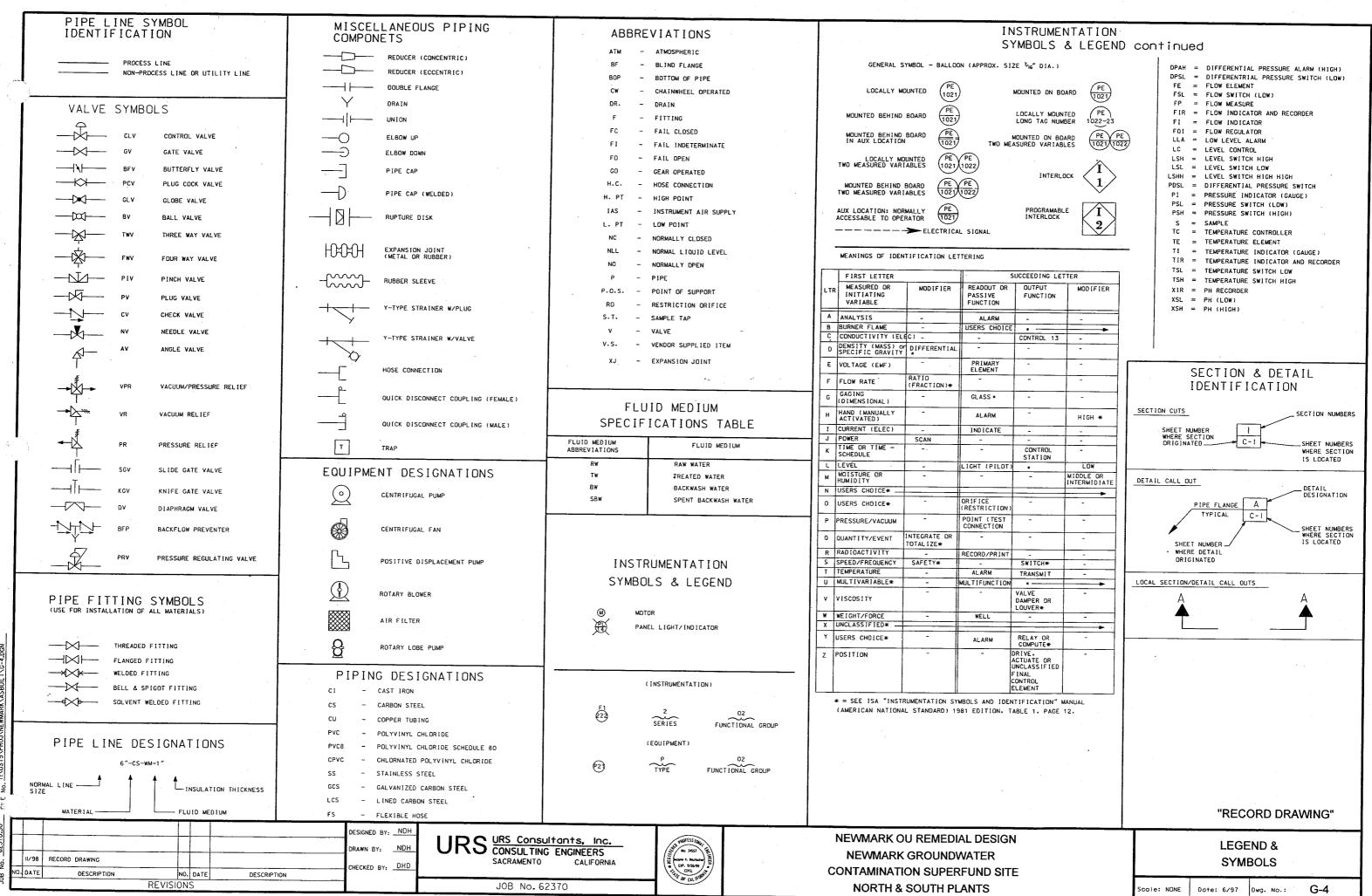
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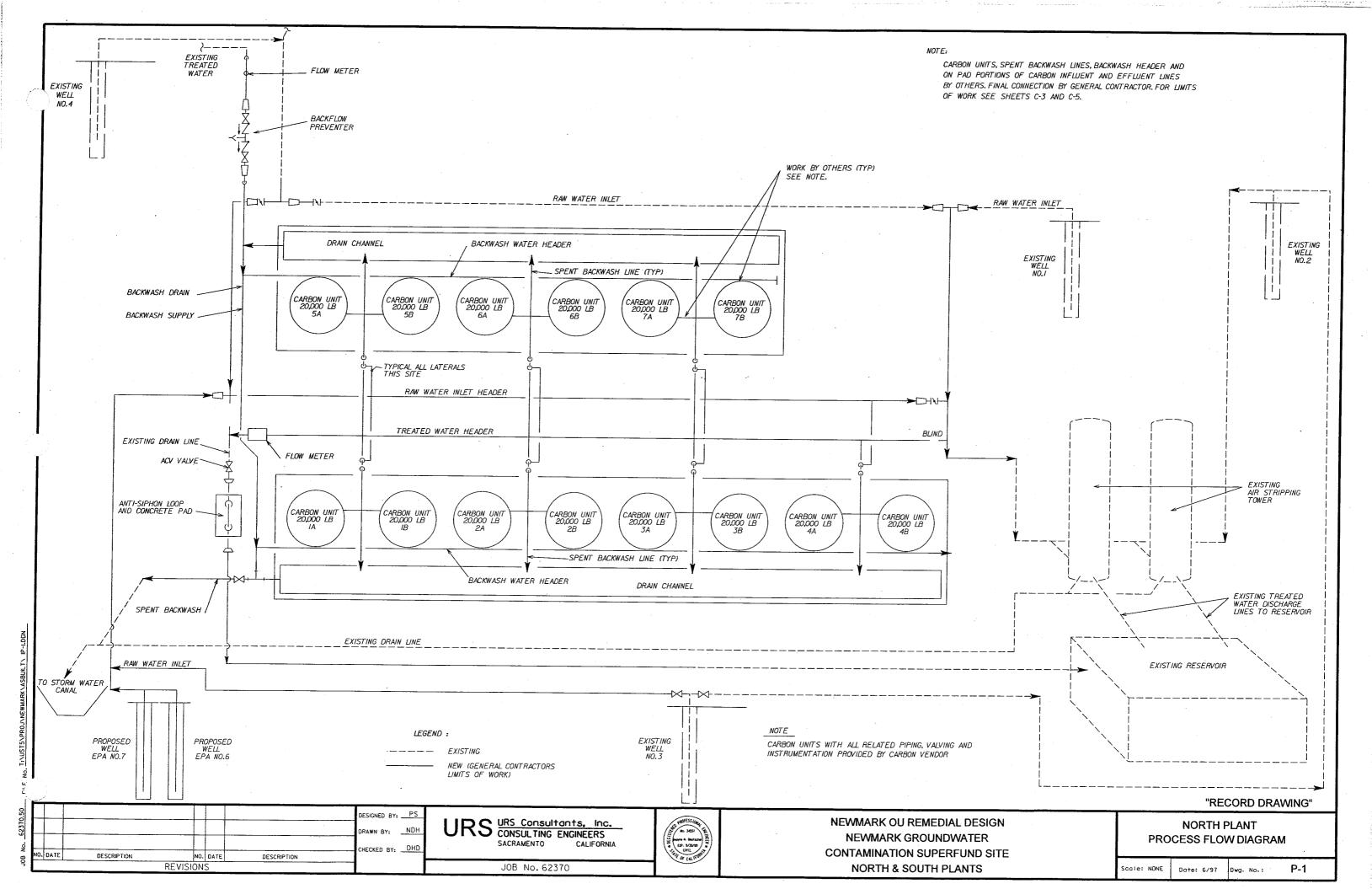


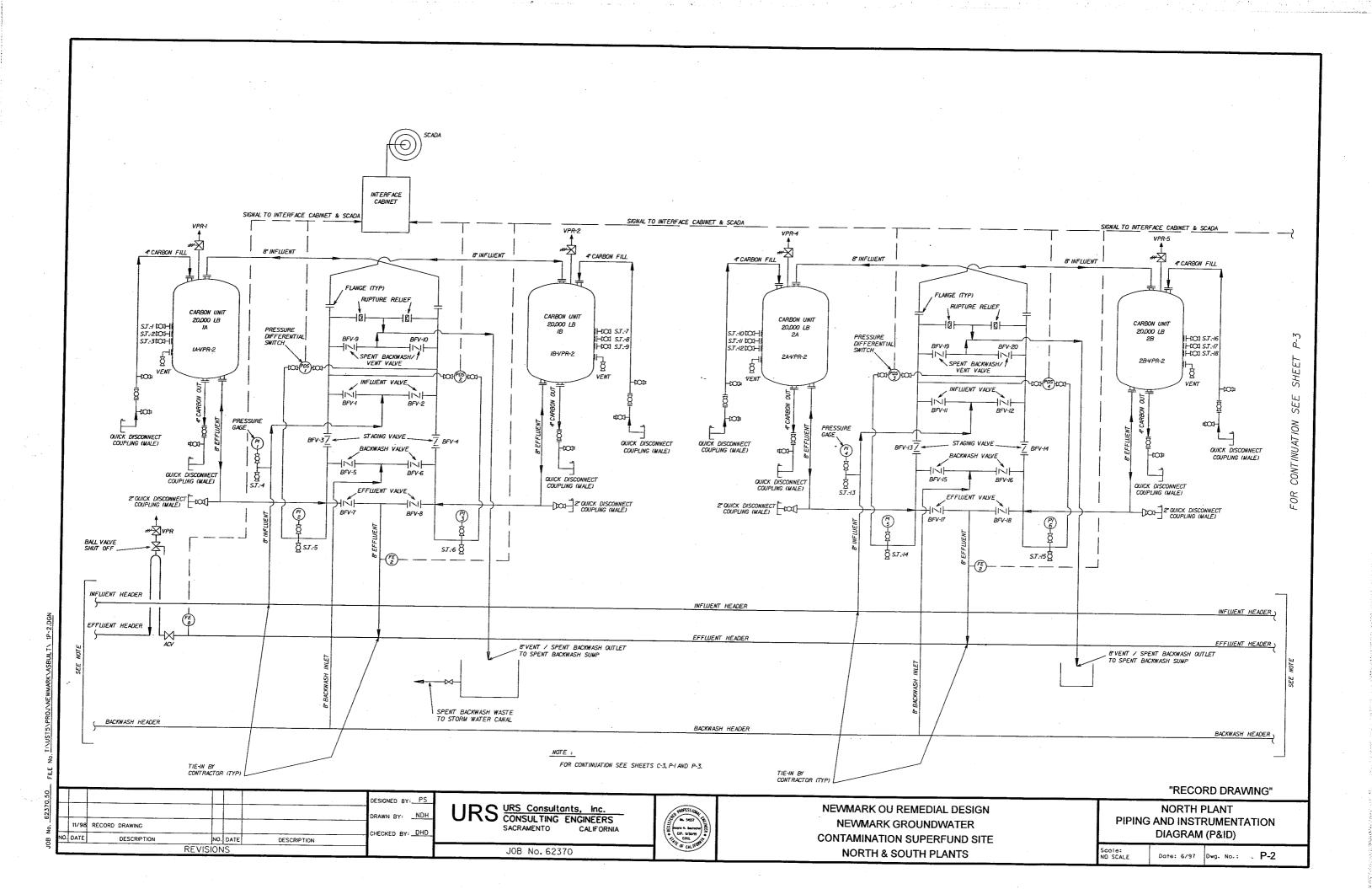
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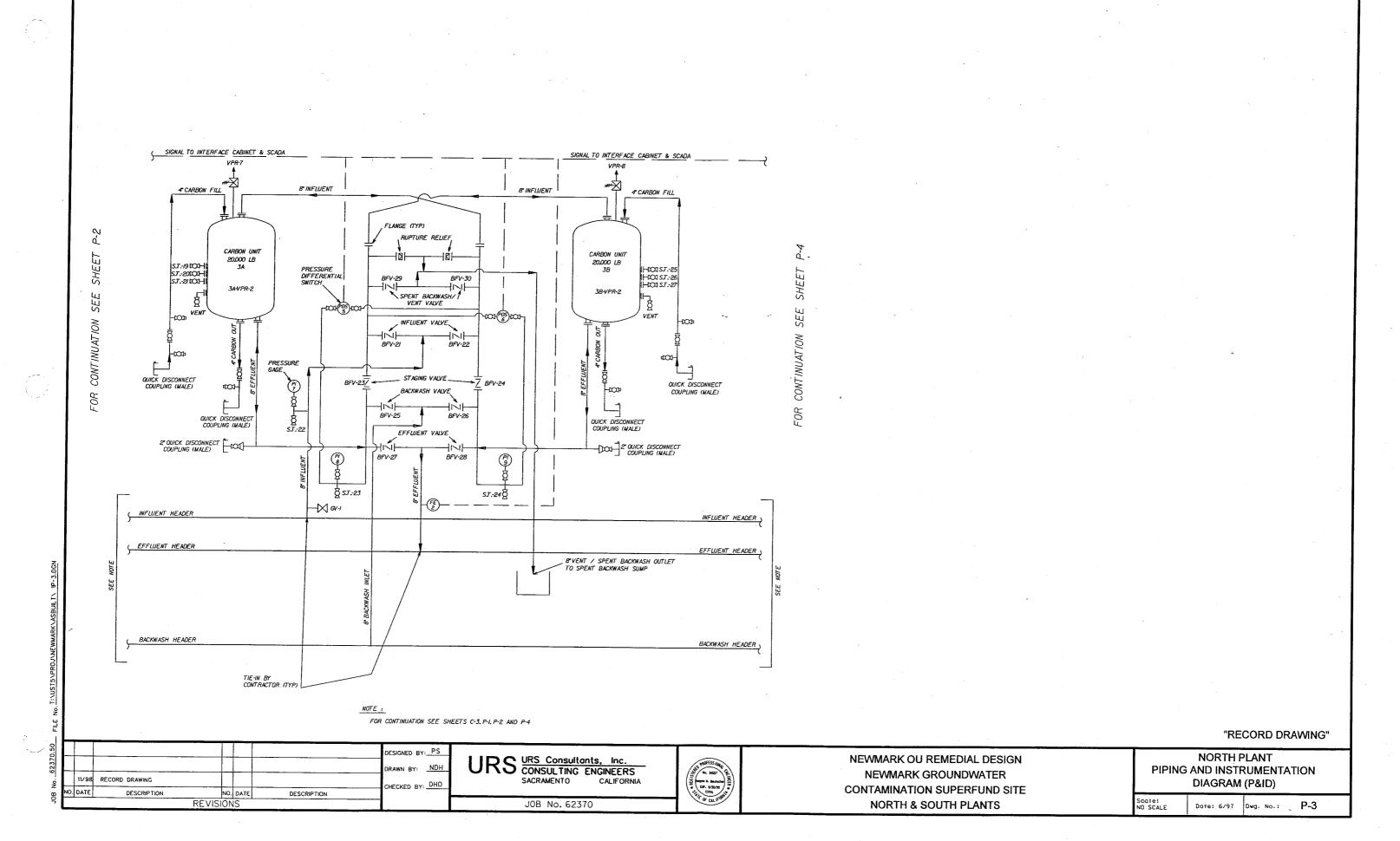
VICINITY AND LOCATION MAPS

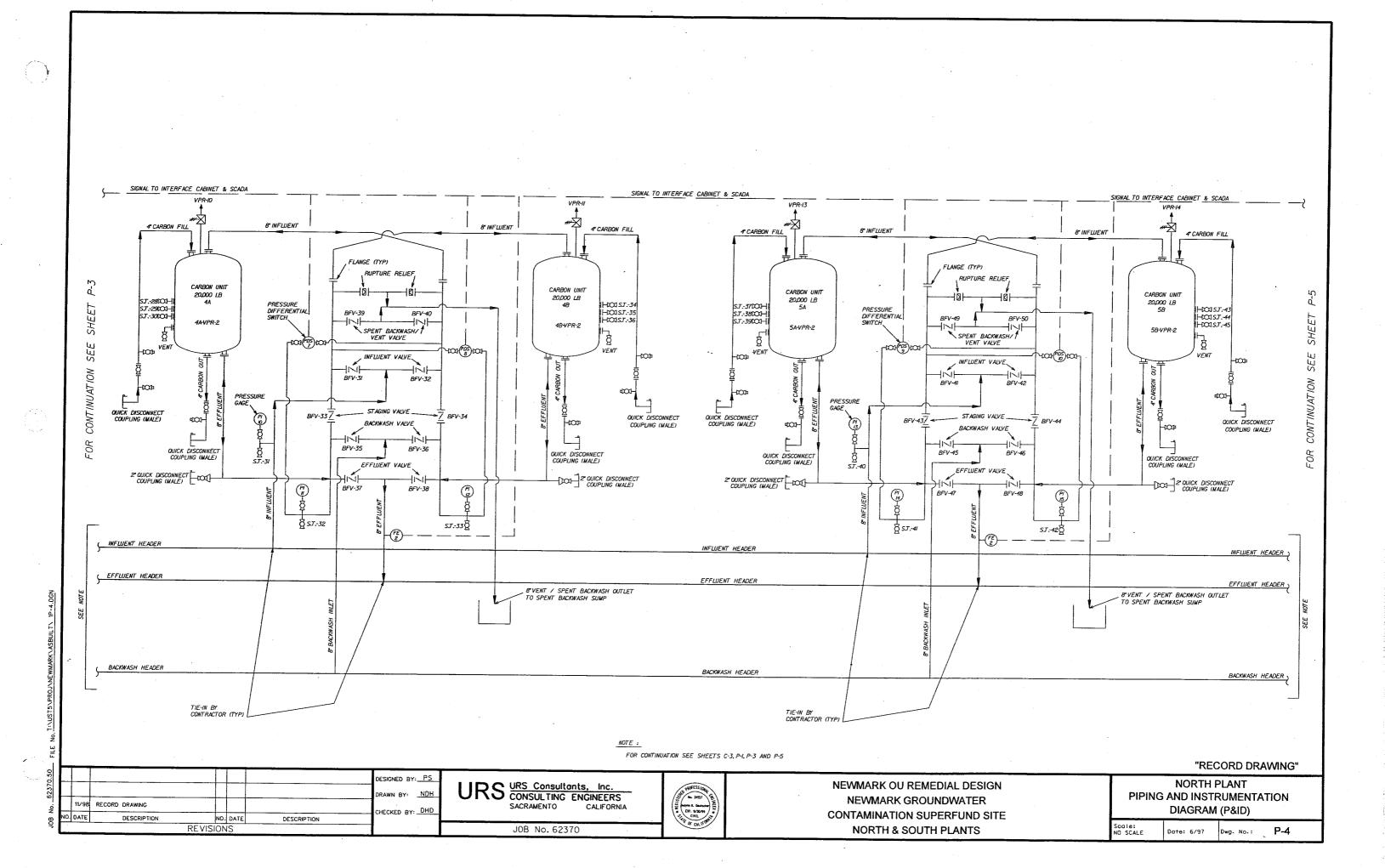
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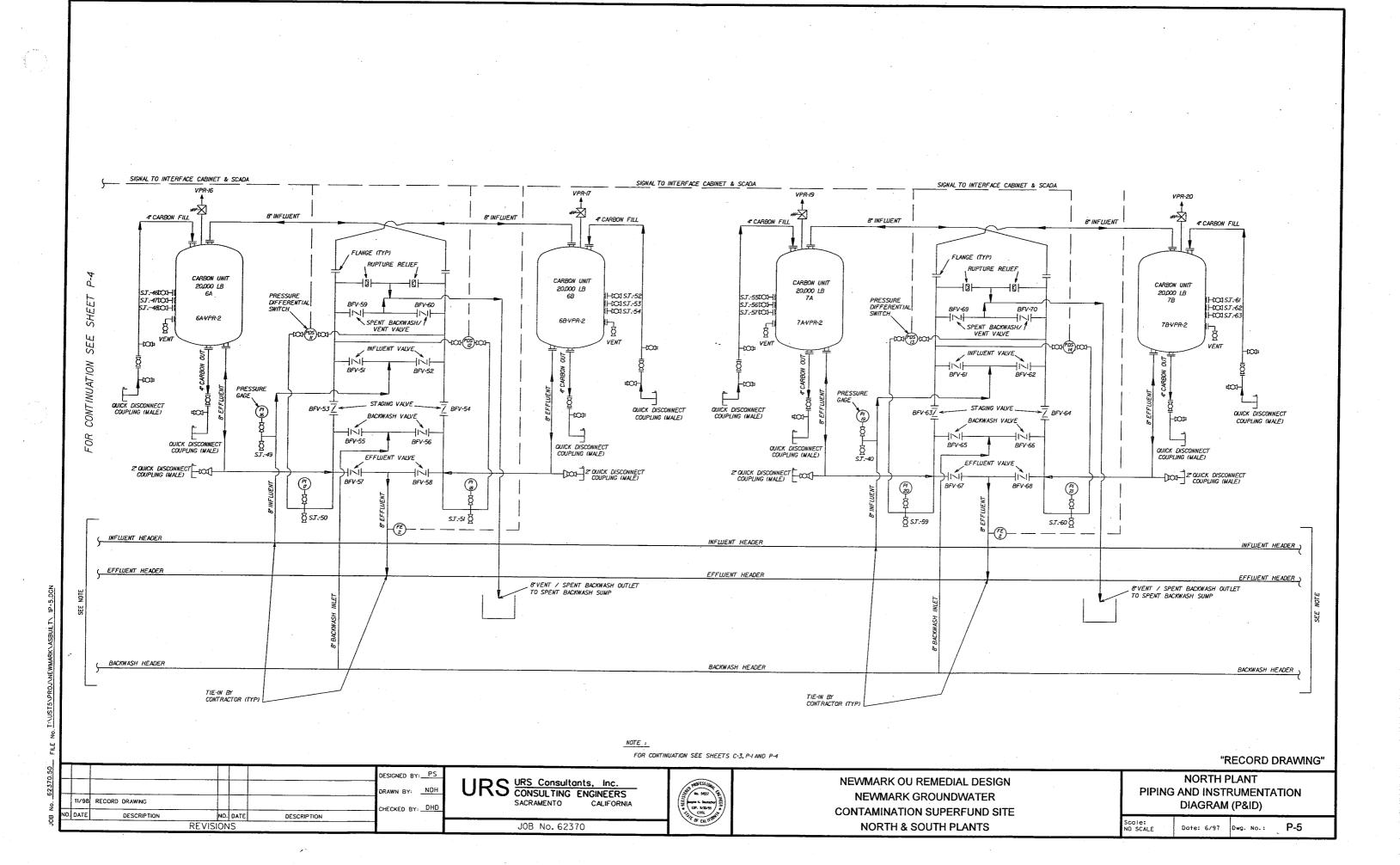








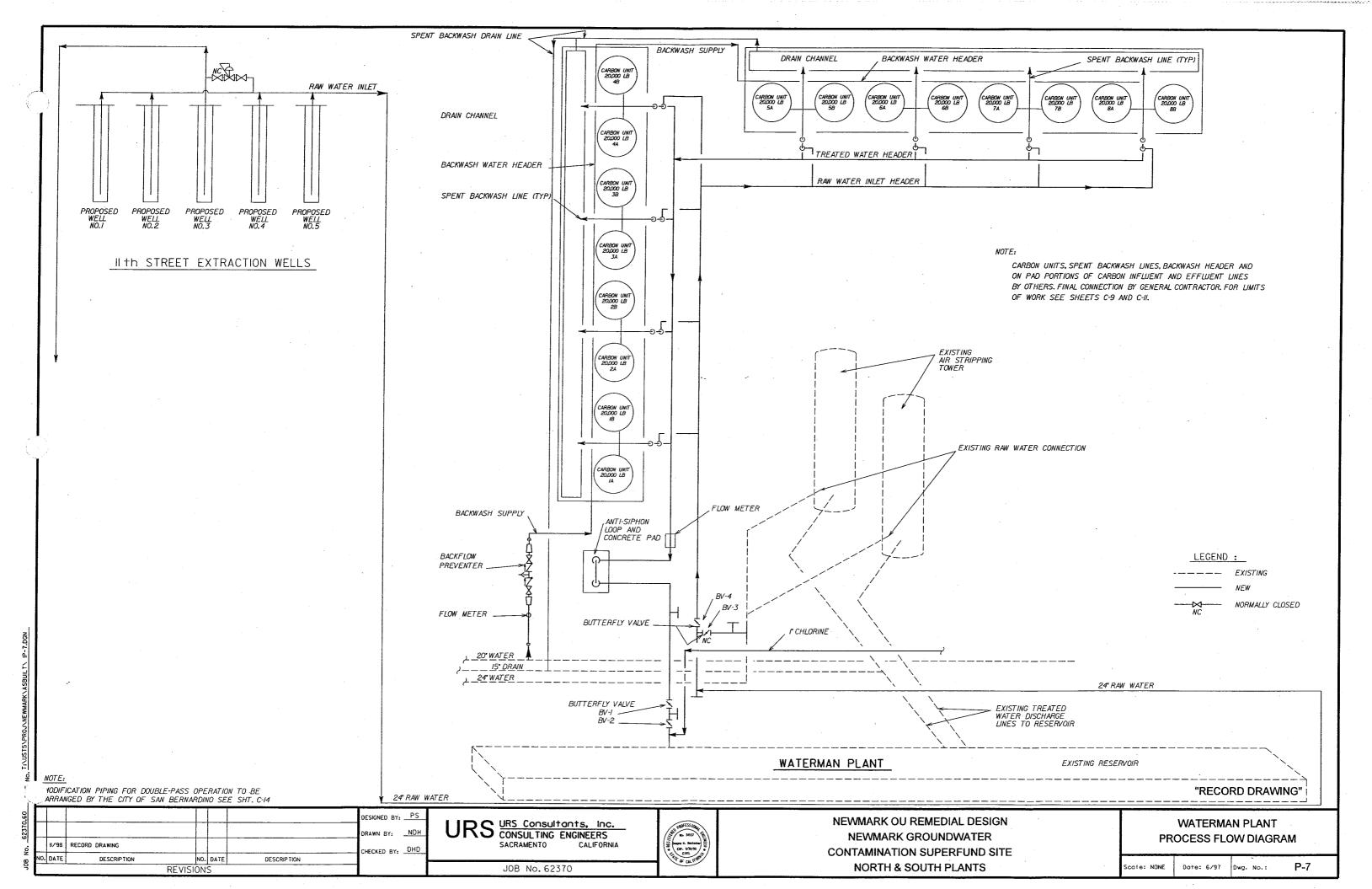


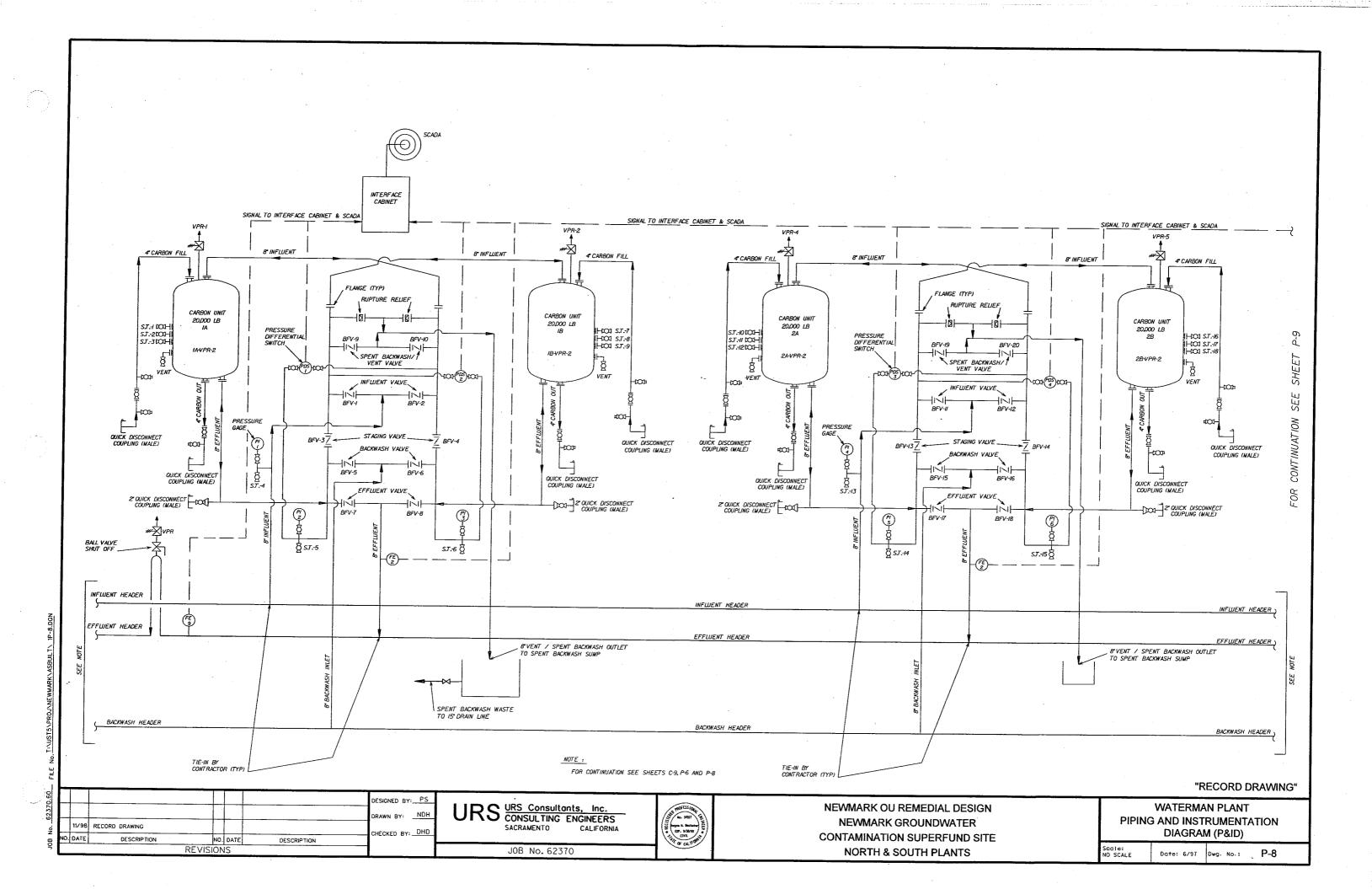


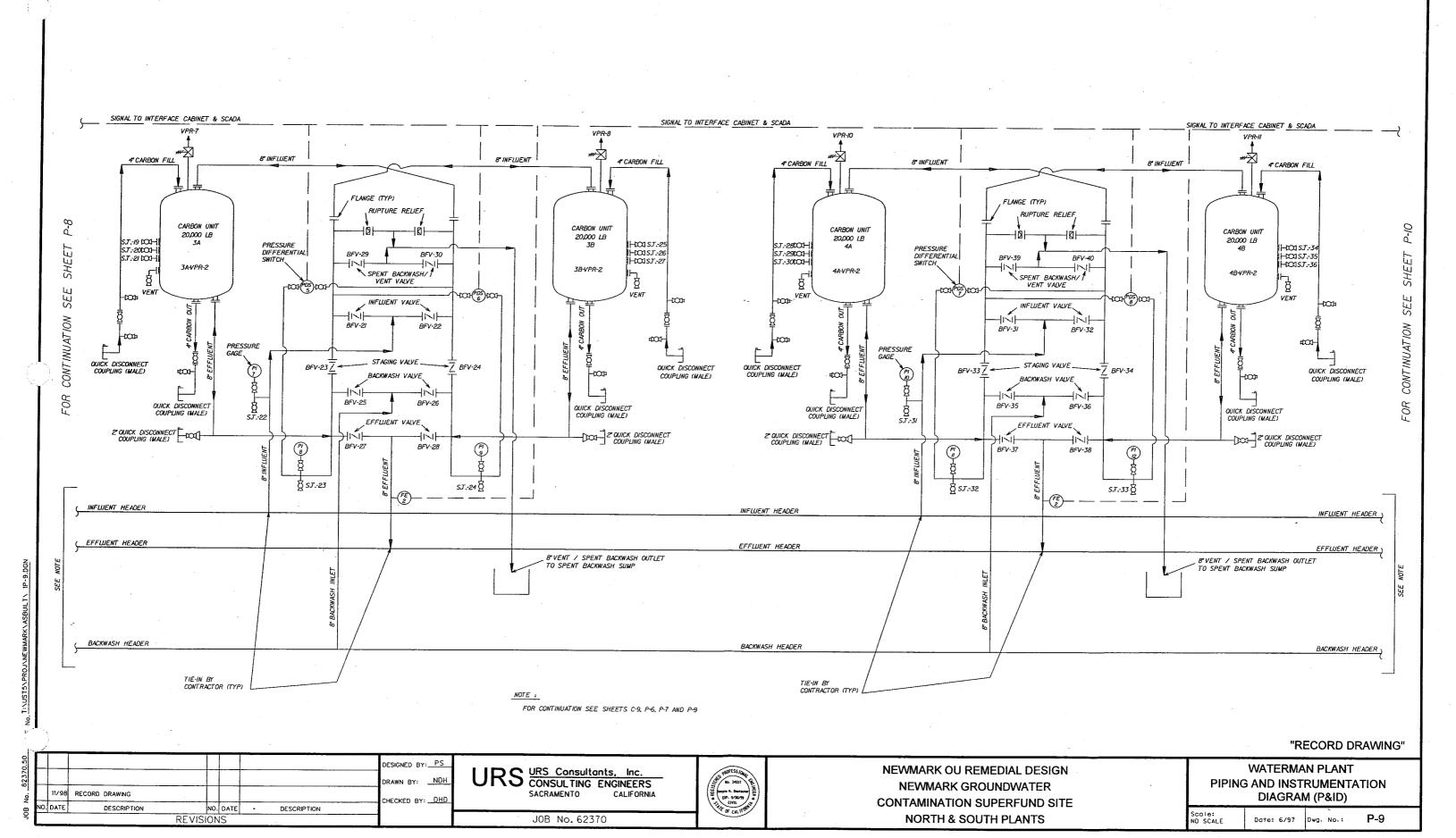
CARBON UNITS VALVE SCHEDULE

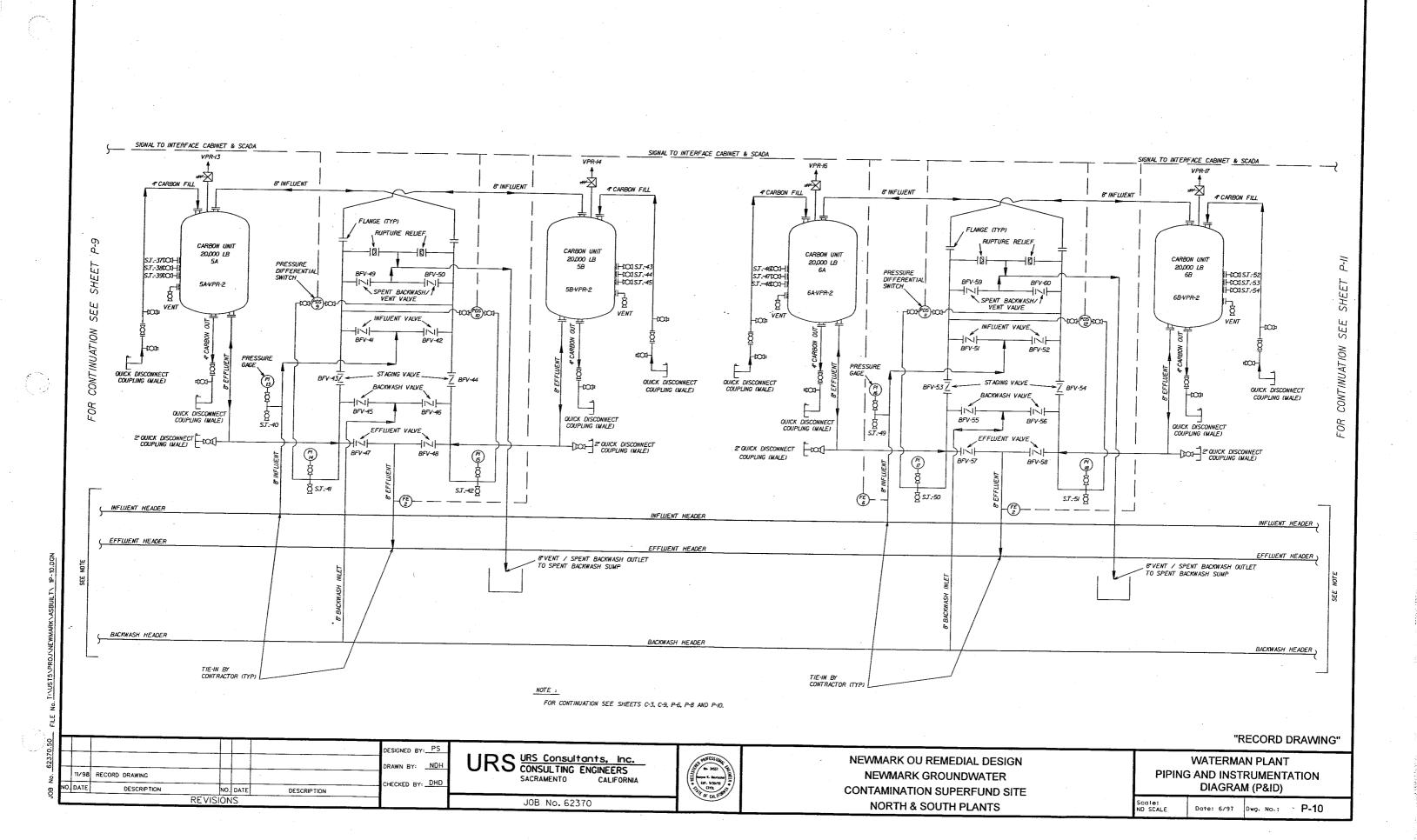
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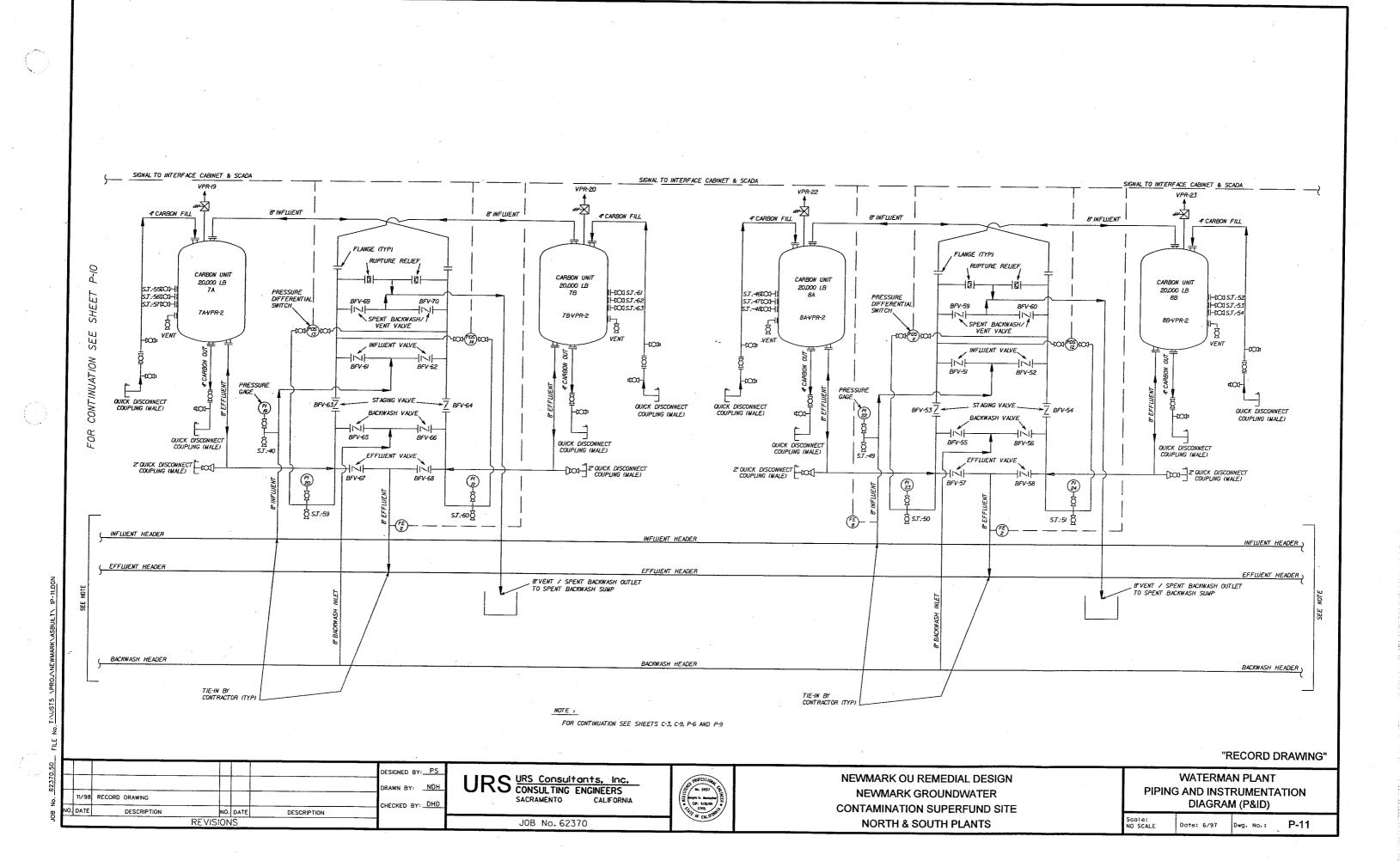
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1	LOCATION			LOCATION			LOCATION		-	LOCATION			LOCATION			
j	IA & IB		ŀ	2A & 2B			3A & 3B			4A & 4B						
VALVE NO.	SERVICE	ASBUILT NO.	_VALVE_NO.	SERVICE	ASBUILT NO.	VALVE NO.	SERVICE	ASBUILT NO.	VALVE NO.	SERVICE	ASBUILT NO.	VALVE NO	5A & 5B	4000000		
VPR-I	AIR VACUUM/PRESSURE RELIEF	IA-VPR-I	VPR-4	AIR VACUUM/PRESSURE RELIEF	044/00/			-		3211102	7020121 110.	VALVE NO	SERVICE	ASBUILT NO.		
VPR-2	AIR VACUUM/PRESSURE RELIEF	IB-VPR-I	VPR-5	AIR VACUUM/PRESSURE RELIEF	2A-VPR-I 2B-VPR-I	VPR-7	AIR VACUUM/PRESSURE RELIEF	3A-VPR-I	VPR-IO	AIR VACUUM/PRESSURE RELIEF	4A-VPR-I	VPR-13	AIR VACUUM/PRESSURE RELIEF	5A-VPR-I		
* IA-VPR-2	AIR VACUUM/PRESSURE RELIEF	IA-VPR-2	* 2A-VPR-2	AIR VACUUM/PRESSURE RELIEF		* 3AVPR-2	AIR VACUUM/PRESSURE RELIEF AIR VACUUM/PRESSURE RELIEF	38-VPR-I	VPR-II	AIR VACUUM/PRESSURE RELIEF	4B-VPR-I	VPR-14	AR VACUUM/PRESSURE RELIEF	5B-VPR-I		
* IB-VPR-2	AIR VACCUM/PRESSURE RELIEF	IB-VPR-2	* 2B-VPR-2	AIR VACCUM/PRESSURE RELIEF		* 3B-VPR-2	AIR VACCUM/PRESSURE RELIEF	3A-VPR-2 3B-VPR-2	* 4A-VPR-2 * 4B-VPR-2	AIR VACUUM/PRESSURE RELIEF	4A-VPR-2	* 5A-VPR-2		5A-VPR-2		
. S.T1	SAMPLE TAP CARBON UNIT IA	IA-ST-I	S.T10	SAMPLE TAP CARBON UNIT 2A	2A-ST-I	S.T19	SAMPLE TAP CARBON UNIT 3A	3A-ST-I	* 45VFN-2	AIR VACCUM/PRESSURE RELIEF SAMPLE TAP CARBON UNIT 4A	4B-VPR-2	* 5B-VPR-2		5B-VPR-2		
S.T2	SAMPLE TAP CARBON UNIT IA	IA-ST-2	S.T11	SAMPLE TAP CARBON UNIT 2A	2A-ST-2	S.T20	SAMPLE TAP CARBON UNIT 3A	3A-ST-2	S.T29	SAMPLE TAP CARBON UNIT 4A	4A-ST-1 4A-ST-2	S.T37	SAMPLE TAP CARBON UNIT 5A	5A-ST-1		
S.T3	SAMPLE TAP CARBON UNIT IA	IA-ST-3	S.T12	SAMPLE TAP CARBON UNIT 2A	2A-ST-3	S.T2I	SAMPLE TAP CARBON UNIT 3A	3A-ST-3	S.T30	SAMPLE TAP CARBON UNIT 4A	4A-ST-3	S.T38 S.T39	SAMPLE TAP CARBON UNIT 5A SAMPLE TAP CARBON UNIT 5A	5A-ST-2		
S.T4	SAMPLE TAP INFLUENT	IA-ST-4	S.T13	SAMPLE TAP INFLUENT	2A-ST-4	S.T22	SAMPLE TAP INFLUENT	3A-ST-4	S.T31	SAMPLE TAP INFLUENT	4A-ST-4	S.T40	SAMPLE TAP CARBON UNIT SA	5A-ST-3 5A-ST-4		
S.T5 S.T6	SAMPLE TAP INTERMEDIATE SAMPLE TAP EFFWENT	IA-ST-5,IB-ST-5	S.T14	SAMPLE TAP INTERMEDIATE	2A-ST-5,2B-ST-5	S.T23	SAMPLE TAP INTERMEDIATE	3A-ST-5,3B-ST-5	S.T32	SAMPLE TAP INTERMEDIATE	4A-ST-5,4B-ST-5	5.T4I	SAMPLE TAP INTERMEDIATE	5A-ST-5,58-ST-5		
S.T7	SAMPLE TAP EFFLUENT SAMPLE TAP CARBON UNIT IB	IB-ST-4 IB-ST-I	S.T15	SAMPLE TAP EFFLUENT	2B-ST-4	S.T24	SAMPLE TAP EFFLUENT	3B-ST-4	S.T33	SAMPLE TAP EFFLUENT	4B-ST-4	S.T42	SAMPLE TAP EFFLUENT	5 B- ST-4		
S.T8	SAMPLE TAP CARBON UNIT IB	18-ST-2	S.T16 S.T17	SAMPLE TAP CARBON UNIT 2B	2B-ST-I	S.T25	SAMPLE TAP CARBON UNIT 3B	3B-ST-I	S.T34	SAMPLE TAP CARBON UNIT 4B	4B-ST-I	S.T43	SAMPLE TAP CARBON UNIT 5B	5B-ST-1		
S.T9	SAMPLE TAP CARBON UNIT IB	IB-ST-3	S.T18	SAMPLE TAP CARBON UNIT 2B SAMPLE TAP CARBON UNIT 2B	28-ST-2	S.T26	SAMPLE TAP CARBON UNIT 3B	38-ST-2	S.T35	SAMPLE TAP CARBON UNIT 4B	4B-ST-2	S.T44	SAMPLE TAP CARBON UNIT 5B	5B-ST-2		
BFV-I	INFLUENT	IA-BFV-2	BFV-II	INFLUENT	2B-ST-3 2A-BFV-2	S.T27	SAMPLE TAP CARBON UNIT 3B	3B-ST-3	S.T36	SAMPLE TAP CARBON UNIT 4B	4B-ST-3	S.T45	SAMPLE TAP CARBON UNIT 5B	5B-ST-3		
BFV-2	INFLUENT	IB-BFV-2	BFV-12	INFLUENT	28-8FV-2	BFV-21	INFLUENT	3A-BFV-2	BFV-31	INFLUENT	4A-BFV-2	BFV-4I	INFLUENT	5A-BFV-2		
BFV-3	STAGING	IA-BFV-3	BFV-I3	STAGING	2A-BFV-3	BFV-22 BFV-23	INFLUENT STAGING	3B-BFV-2	BFV-32	INFLUENT	48-BFV-2	BFV-42	INFLUENT	58-BFV-2		
BFV-4	ST AGING	IB-BFV-3	BFV-14	STAGING	28-8FV-3	BFV-24	ST AGING ST AGING	3A-BFV-3	BFV-33	STAGING	4A-BFV-3	BFV-43	STAGING	5A-BFV-3		
BFV-5	BACKWASH	IA-BFV-4	BFV-15	BACKWASH	2A-BFV-4	BFV-25	BACKWASH	3B-BFV-3 3A-BFV-4	BFV-34	STAGING	4B-BFV-3	BFV-44	STAGING	58-8FV-3		
BFV-6	BACKWASH	IB-BFV-4	BFV-I6	BACKWASH	28-8FV-4	BFV-26	BACKWASH	38-BFV-4	BFV-35 BFV-36	BACKWASH BACKWASH	4A-BFV-4	BFV-45	BACKWASH	5A-BFV-4		
BFV-7	EFFLUENT	IA-BFV-5	BFV-17	EFFLUENT	2A-BFV-5	BFV-27	EFFLUENT	3A-BFV-5	BFV-37	EFFLUENT	4B-BFV-4	BFV-46	BACKWASH	5B-BFV-4		
8FV-8	EFFLUENT	IB-BFV-5	BFV-18	EFFLUENT	2B-BFV-5	BFV-28	EFFLUENT	38-BFV-5	BFV-38	EFFLUENT	4A-BFV-5 4B-BFV-5	BFV-47 BFV-48	EFFLUENT	5A-BFV-5		
BFV-9	SPENT BACKWASH/VENT	IA-BFV-I	BFV-19	SPENT BACKWASH/VENT	2A-BFV-I	BFV-29	SPENT BACKWASH/VENT	3A-BFV-I	BFV-39	SPENT BACKWASH/VENT	4A-BFV-I	BFV-40 BFV-49	EFFLUENT SPENT BACKWASH/VENT	5B-BFV-5		
BFV-10	SPENT BACKWASH/VENT	IB-BFV-I	BFV-20	SPENT BACKWASH/VENT	2B-BFV-I	BFV-30	SPENT BACKWASH/VENT	38-8FV-I	BFV-40	SPENT BACKWASH/VENT	4B-BFV-I	BFV-50	SPENT BACKWASH/VENT	5A-BFV-i		
									•			2. 7 20	SI ENI BIONAISINVERI	58-BFV-1		
	LOCATION				-				-							
1	LOCATION			LOCATION	-											
	6A & 6B			7A & 7B												
VALVE NO.	SERVICE	ASBUILT NO.	VALVE NO.	SERVICE	ASBUILT NO.											
VPR-16	AIR VACUUM/PRESSURE RELIEF	6A-VPR-I	VPR-I9	AIR MACHINI (PRECCURE RELICE	7											
VPR-17	AIR VACUUM/PRESSURE RELIEF	68-VPR-I	VPR-20	AIR VACUUM/PRESSURE RELIEF AIR VACUUM/PRESSURE RELIEF	7A-VPR-I 7B-VPR-I											
* 6A-VPR-2	AIR VACUUM/PRESSURE REUEF	6A-VPR-2	* 7A-VPR-2	AR VACUUM/PRESSURE RELIEF	78-VPR-2											
* 6B-VPR-2	AIR VACCUM/PRESSURE RELIEF	6B-VPR-2	* 7B-VPR-2	AIR VACCUM/PRESSURE RELIEF	78-VPR-2								•			
S.T46	SAMPLE TAP CARBON UNIT 6A	6A-ST-I	S.T55	SAMPLE TAP CARBON UNIT 7A	7A-ST-I											
S.T47	SAMPLE TAP CARBON UNIT 6A	6A-ST-2	S.T56	SAMPLE TAP CARBON UNIT 7A	7A-ST-2											
ST48	SAMPLE TAP CARBON UNIT 6A	6A-ST-3	S.T57	SAMPLE TAP CARBON UNIT TA	7A-ST-3											
S.T49	SAMPLE TAP INFLUENT	6A-ST-4	S.T58	SAMPLE TAP INFLUENT	7A-ST-4								•			
S.T50	SAMPLE TAP INTERMEDIATE	6A-ST-5,6B-ST-5	S.T59	SAMPLE TAP INTERMEDIATE	7A-ST-5,7B-ST-5											
S.T5I	SAMPLE TAP EFFLUENT	6B-ST-4	S.T60	SAMPLE TAP EFFLUENT	7B-ST-4						-					
S.T52	SAMPLE TAP CARBON UNIT 6B	6B-ST-1	S.T61	SAMPLE TAP CARBON UNIT 78	7B-ST-I						İ			Į		
S.T53	SAMPLE TAP CARBON UNIT 68	6B-ST-2	S.T62	SAMPLE TAP CARBON UNIT 7B	78-ST-2									ĺ		
S.T54	SAMPLE TAP CARBON UNIT 68	6B-ST-3	S.T63	SAMPLE TAP CARBON UNIT 7B	78-ST-3									4		
BFV-5I	INFLUENT	6A-BFV-2	BFV-6I	INFLUENT	7A-BFV-2						·					
BFV-52 BFV-53	INFLUENT	6B-BFV-2	BFV-62	INFLUENT	7B-BFV-2											
BFV-53	ST AGING ST AGING	6A-BFV-3	BFV-63	STAGING	7A-BFV-3									I		
BFV-55	BACKWASH	68-BFV-3	BFV-64	STAGING	7B-BFV-3						1			i		
BFV-56	BACKWASH	6A-BFV-4 6B-BFV-4	8FV-65	BACKWASH	7A-BFV-4				,							
BFV-57	EFFLUENT	6A-BFV-5	8FV-66	BACKWASH	78-BFV-4											
BFV-58	EFFLUENT	68-BFV-5	BFV-67 BFV-68	EFFLUENT EFFLUENT	7A-BFV-5											
BFV-59	SPENT BACKWASH/VENT	6A-BFV-I	BFV-69	SPENT BACKWASH/VENT	7B-BFV-5 7A-BFV-I											
BFV-60 ·	SPENT BACKWASH/VENT	6B-BFV-I	BFV-70	SPENT BACKWASH/VENT	78-BFV-I						•			1		
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	DRAWN BY: NDH URS URS CONSULTING			onts, Inc.	NEWMARK OU REMEDIAL DESIGN NEWMARK GROUNDWATER			NORTH PLANT								
11/98 RECORD DR	11/98 RECORD DRAWING			CACDAMENTO			Some as the second of the seco		NEWMARK GROUNDWATER				CARBON UNITS VALVE SCHEDULE			
NO. DATE DI	SCRIPTION NO. DA	TE DESCRIPTION	C	CHECKED BY: DHD	SACRAMENTO CALIFORNIA			CONTAMINATION SUPERFUND SITE					CARBON CHITS VALVE SCHEDOLE			
	REVISIONS				JOB No. 62370			NORTH & SOUTH PLANTS					Scale: ND SCALE Date: 6/97 Dwg. No.: P-6			
NORTH & SOUTH PLANTS NO SCALE Date: 6/97 Dwg. No.: P-6																











CARBON UNITS VALVE SCHEDULE

* NEW VALVE ADDED AFTER VESSEL INSTALLATION NOTE : FOR THE OPERATION OF VALVES IN EACH OPERATING MODE REFER TO THE OWN MANUAL

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1			LOCATION			LOCATION			100471011									
## 1 A SAME SAME SAME SAME SAME SAME SAME SA									LOCATION				LOCATION					
## CASE OF CAS	-1	VALVE NO.		ASBUILT NO.	VALVE NO		ACOUNT NO].		•		4A & 4B				5A & 5B		
## AND PROPERTY OF CASE AND A STATE OF CASE AN					TALVE NO.	SERVILE	ASBUILT NO.	VALVE NO.	SERVICE	ASBUILT NO.	VALVE NO.	SERVICE	ASBUILT NO.	VALVE NO	<u>).</u>	SERVICE	ASBUILT NO.	
# 2000 AND				IA-VPR-I	VPR-4	AIR VACUUM/PRESSURE RELIEF	2A-VPR-I	VPR-7	AIR VACUUM/PRESSURE RELIE	F 3A-VPR-I	VPR-IO	AIR VACINIU/PRESSURE REUEE	44.1/00./	1470.47				
- Service Control and Control					VPR-5	AIR VACUUM/PRESSURE RELIEF	2B-VPR-I	VPR-8	AIR VACUUM/PRESSURE RELIE		1	•						
## 1					* 2A-VPR-2	AIR VACUUM/PRESSURE RELIEF	· 2A-VPR-2	* 3A-VPR-2	AIR VACUUM/PRESSURE RELIE		1 .							
Second S	- 1				* 2B-VPR-2	AIR VACCUM/PRESSURE RELIEF	2B-VPR-2	★ 3B-VPR-2	AIR VACCUM/PRESSURE RELIE									
Second Column	ł				i	SAMPLE TAP CARBON UNIT 2A	2A-ST-1	S.T19	SAMPLE TAP CARBON UNIT 32	4 <i>3A-ST-1</i>	SJ28							
## 15-20 Sept. 12 Sep	- 1				1	SAMPLE TAP CARBON UNIT 2A	2A-ST-2	S.T20	SAMPLE TAP CARBON UNIT 3	4 3A-ST-2	1							
Second Community Market State	- 1				i	SAMPLE TAP CARBON UNIT 2A	2A-ST-3	S.T21	SAMPLE TAP CARBON UNIT 3A	3A-ST-3	S.T30							
## MARK OF PETTING ## MARK OF PE	ı				1	SAMPLE TAP INFLUENT	2A-ST-4	S.T22	SAMPLE TAP INFLUENT	3A-ST-4	S.T31		i					
## 15.5 SURF TO FORMER WILL BE STORY TO STORY AND THE STOR	ı				į.		2A-ST-5,2B-ST-5	S.T23	SAMPLE TAP INTERMEDIATE	3A-ST-5,38-ST-5	S.J32	SAMPLE TAP INTERMEDIATE						
Second Continue of the Conti					1		2B-ST-4	S.T24	SAMPLE TAP EFFLUENT	3B-ST-4	S.T33							
## APP STATE OF THE PROPERTY OF THE STATE OF THE PROPERTY OF T	·]		· · · -		1		2B-ST-1	S.T25	SAMPLE TAP CARBON UNIT 3E	3B-ST-I	S.T34	SAMPLE TAP CARBON UNIT 4B	1					
## WEST ## WES	- 1				1		2B-ST-2	S.T26	SAMPLE TAP CARBON UNIT 36	3B-ST-2	S.T35	SAMPLE TAP CARBON UNIT 4B						
## 10 MODELLY ##	- 1				l			S.T27	SAMPLE TAP CARBON UNIT 3B	3B-ST-3	S.T36	SAMPLE TAP CARBON UNIT 4B	4B-ST-3					
## STORM MAY WY ## STAND MAY WY # STAND MAY WY # STAND MAY	- 1							BFV-2I	INFLUENT	3A-BFV-2	BFV-31	INFLUENT	4A-BFV-2	BFV-41		_		
## SAME ## SAM	- 1				i			1	INFLUENT	3B-BFV-2	BFV-32	INFLUENT	4B-BFV-2	BFV-42				
## 2000 SERVICES 1997 1997 1997 1997 1997 1997 1997 199				1	1			1		3A-BFV-3	BFV-33	STAGING	4A-BFV-3	BFV-43	STA	GING		
## 0 000000					1			1		38-8FV-3	BFV-34	STAGING	4B-BFV-3	BFV-44			1	
### CTUBER 1997 1998 199	ı	BFV-6						1 -		3A-BFV-4	BFV-35 *	BACKWASH	4A-BFV-4	BFV-45	BAC	CWASH		
## SPAINS ## SPA		BFV-7		1				1		3B-BFV-4	BFV-36	BACKWASH	48-BFV-4	BFV-46	BACI	WASH	1	
## 1500 MARKET FOR GROWN OF A GRO		BFV-8	EFFLUENT	į				i			BFV-37	EFFLUENT	4A-BFV-5	BFV-47	EFF	WENT	5A-BFV-5	
### 900 900 900 900 900 900 900 900 900		BFV-9	SPENT BACKWASH/VENT	1				1 -	•	-	BFV-38	EFFLUENT	4B-BFV-5	BFV-48	EFF	LUENT	58-BFV-5	
		BFV-10	SPENT BACKWASH/VENT	1				1					4A-BFV-I	BFV-49	SPE	NT BACKWASH/VENT	5A-BFV-I	
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